

# FEMA Geospatial Coordination Call

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## *Hurricane Michael*

*October 15, 2018 2:00 PM EST*

*Conference Bridge: 800-320-4330, Passcode:247327#*

Adobe Connect:

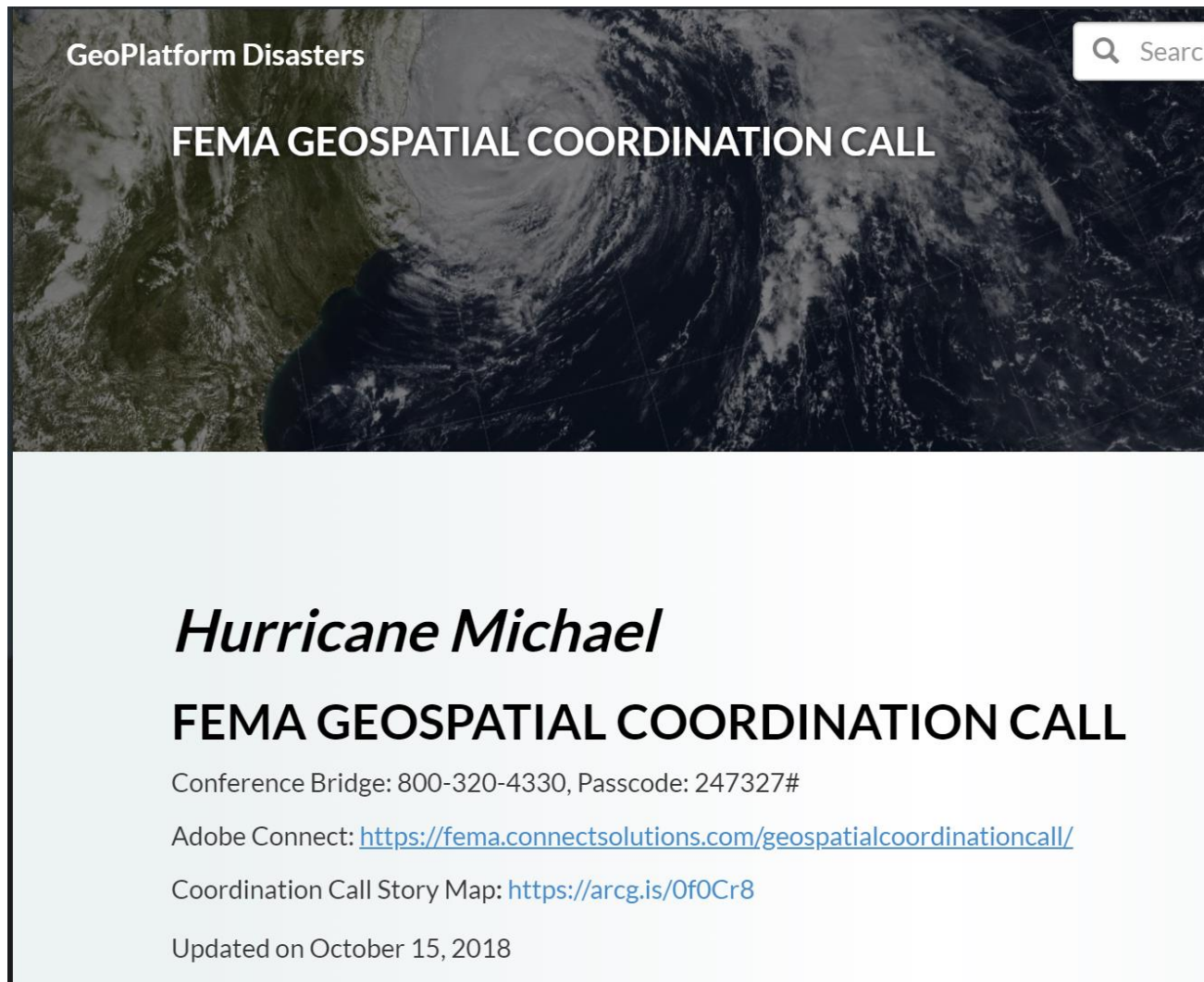
<https://fema.connectsolutions.com/geospatialcoordinationcall/>

Link to Storymap: <https://arcg.is/0f0Cr8>

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# 1. Geospatial Coordination Call Info



GeoPlatform Disasters

Search

**FEMA GEOSPATIAL COORDINATION CALL**

*Hurricane Michael*

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Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

Coordination Call Story Map: <https://arcg.is/0f0Cr8>

Updated on October 15, 2018

FEMA Hurricane Incident Journal:

<https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>

FEMA GIS Portal:

<http://fema.maps.arcgis.com/>

FEMA GIS Portal:

<https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>

## 2. Situational Overview

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**October 15, 2018**

### **Tropical Cyclone Michael**

- Multiple federal and state assets remain engaged and staged to support the stabilization of all lifelines. Particular focus is on Food, Water, Shelter and Health and Medical. The strategic objective is to ensure commodities, equipment, and personnel are deployed to meet states' requirements. Commodities continue to be provided to the impacted states for distribution. Federal Urban Search and Rescue and medical resources are being utilized in Florida while ambulances have been released from Georgia. Additional food, water, and shelter items are being staged and available as needs arise.
- The NRCC and Region IV RRCC continue operations 24/7. AL EOC at Partial Activation, FL and GA EOCs at Full Activation. RIV I-MAT-2 deployed to FL EOC; RIV IMAT-3 and Region V IMAT deployed to GA. National IMAT-East deployed to FL EOC and Region II IMAT deployed to AL EOC. ISB, Region V IMAT deployed to GA EOC.
- The President approved the following Emergency and Major Declarations: FEMA-3405-EM-FL, FEMA-3406-EM-GA, FEMA-3407-EM-AL, and Major Declaration FEMA-4399-DR-FL, FEMA-4400-DR-GA. Cost share adjustment to FEMA-4399-DR-FL; 100% for debris removal (Category A) and emergency protective measures (Category B) for a five day period.
- Additional information and mapping products can be found at: <https://bit.ly/2OjJwVz>
- **Lifeline Priorities**
  - **Safety & Security – (FL / GA / AL / NC / SC)**
    - All:
      - Multiple federal and state assets remain engaged and staged to support search and rescue, damage assessment, and health and medical missions. 16 states with more than 430 personnel supporting search and rescue, incident management, medical, and volunteer management missions through Emergency Management Assistance Compact (EMAC).
    - FL:
      - 5 QRT (CBP (2), DEA, FWS and ATF), two Type 1 US&Rs, and MRP (Water Rescue) Teams conducting wide researches and building searches; all primary searches complete, estimate secondary complete evening of October 15
      - 2 (-1) voluntary evacuations; curfews in effect for 6 (-1) counties
      - FEMA, GSA, and FL working to procure lodging for responders. FDEM Logistics will establish 6 lodging camps in various locations; camps will be open for all responders
    - GA:
      - All county governments open
  - **Food, Water and Shelter – (FL / GA / AL / NC / SC)**
    - All:
      - Primary focus is Disaster Survivor Assistance (DSA) in FL and Individual Assistance in GA. Lodging in and around impacted areas in FL and GA is near or exceeding capacity. Shelter populations

continue to decline; focus remains on sustaining food and water supplies for the next 72 hours and providing situational awareness. DSA registration intake is ongoing in all 9 FL designated counties, including in 8 shelters and 3 Point of Distribution (POD) locations.

- FL:
  - 19 shelters with 1,400 (-232) occupants (State and Red Cross)
  - FEMA has commenced community distro to the last tactical mile; targets are 1.7 M meals per day and 1.5 M liters of water per day for 7 days to PODs
  - FEMA is delivering meals and water to 16 PODS; there is an additional 41 PODS at the state and county level
  - 8 active boil water advisories issued
  - Red Cross Safe and Well established to search for loved ones; 422 registered
- AL:
  - 2 shelters open with 59 (+7) occupants
  - 3 water systems in Houston County without power; now on generators
  - Hotel lodging at full capacity around Dothan City
  - Red Cross Safe and Well registrations: 3
- GA:
  - 64 active boil water advisories issued; 34 water utilities partially operational, 76 (124,393 population) non-operational
  - 3 shelters open with 164 (+36) occupants; 14 animal shelters open with 200+ animals
  - 7 PODs to distribute food and water. Targets is 400,000 meals per day for 7 days to State for staging
  - Red Cross Safe and Well registrations: 20
- **Health and Medical – (FL / GA / AL / NC / SC)**
  - 
  - All:
    - Emergency health and medical assets are engaged in the FL and GA and supporting local and state requests for patient care and medical treatment needs. HHS teams continue to work with state, local, and federal officials to support US&R missions, medical needs shelter operations, fatality management needs, and maintaining situational awareness of water and wastewater infrastructure impacts to the health sector.
  - FL:
    - 12 Human Remains (HR) Dog Teams (1-dog/1-handler per team) enroute to impacted areas for projected arrival today
    - Hospitals: 4 closed in three counties, 3 partially open (ER only), 3 on full generator power, 3 on partial generator power
    - Nursing Homes: 7 evacuated/closed; 8 on generator power, 1 reentry complete
    - Assisted Living Facilities: 15 evacuated/closed, 9 on full generator power, 8 on partial generator power, 1 reentry in progress

- Other healthcare facilities: 12 evacuated/closed, 8 on generator power
- Dialysis Centers: 36 open, 2 closed
- 300 ambulances available in Pensacola, 170 engaged; 125 paratransit vehicles (2,300 seats) available, 23 engaged. 5 HHS-supported pharmacists providing medication to ambulance teams in Tallahassee
- GA:
  - 2 hospitals on generators; 4 (-1) nursing homes on generators
- **Energy – (FL / GA / AL / NC / SC)**
  - All:
    - Restorations efforts continue. Power restoration is trending positive with an increasing number of customers with power restored. Damage assessments and restoration efforts continue. Overall gasoline supply across the impacted area is adequate. Federal partners continue to deploy and stage power restoration teams and generators.
  - FL:
    - U.S. Department of Energy (DOE) reports 168,589 (-19,666) customer outages;
    - 6% gas stations without fuel (including 39% Panhandle stations); retail fuel shortages in the Panhandle area
    - 1 generator install completed; 3 additional installs ongoing today
  - AL:
    - DOE reports 3,667 (-2,473) customer outages
    - 2.8% (+0.2%) of gas stations reported out-of-service
  - GA:
    - DOE reports 105,064 (-15,620) customer outages
    - 3.7% of gas stations reported out-of-service
    - 2 generator install completed; 3 additional installs ongoing today
- **Transportation – (FL / GA / AL / NC / SC)**
  - All:
    - Roads continue to re-open in FL as debris clearance and inspections continue. Rail service continues to improve with CSX expecting to return all subdivision to service today; Norfolk Southern main lines back in service; Amtrak resumed scheduled service.
  - FL:
    - FDOT deployed 22 maintenance crews for emergency repairs along US-98
    - Maintenance crews continue to work on clearing and repairing US 98 Westward from Carrabelle
    - Multiple utility hazards identified on SR-12 in Liberty and Gadsden counties
    - Preliminary road damage assessments nearly complete
    - 4 bridge remain out, 3 on US-98 and 1 on SR-30A; inspections complete, time frame for repairs TBD

- GA:
  - All Interstates and National Highway System routes are open; there are 21 total road closures; many of these involve downed power lines SW GA. GA DOT reports all state routes will be open by this evening (at least 12 foot emergency passage if not “white line to white line”)
- - **Hazardous Waste – (FL / GA / AL / NC / SC)**
    - FL:
      - State completed facility assessments with no significant releases or discharges of hazardous substances or oil reported; State has shifted resources to orphan container assessments in the impacted area
      - 4 wastewater treatment plans non-operational; 10 partially operational
    - GA:
      - 9 wastewater facilities non-operational
      - Of 15 chemical facilities, 12 operational and 3 shut down
  - **Communications – (FL / GA / AL / NC / SC)**
    - FL:
      - Efforts underway to have comms carriers increase communications service (wireless and internet) to shelters, Points of Distribution (PODs), and base camps
      - Communications industry moving equipment to Bay Co. EOC to enhance comms capabilities
      - Commercial carrier providing more than 8,000 WIFI hotspots throughout impacted area; free use to anyone
      - 85.62 % (+.71%) cell sites with service; 4 counties have less than 75% of their cellular network service (Franklin, Liberty, Taylor, and Washington); 2 counties have less than 50% of their cellular network (Bay and Gulf)
      - 7 (+3) PSAPs rerouted due to fiber cuts due to debris removal
    - AL:
      - 99.71 (+0.73%) of cellular networks available
    - GA:
      - 98.94% (+0.73%) of cellular networks available
      - 1 PSAP rerouted; expected to be restored by noon, October 15

### 3. FEMA Regional Updates

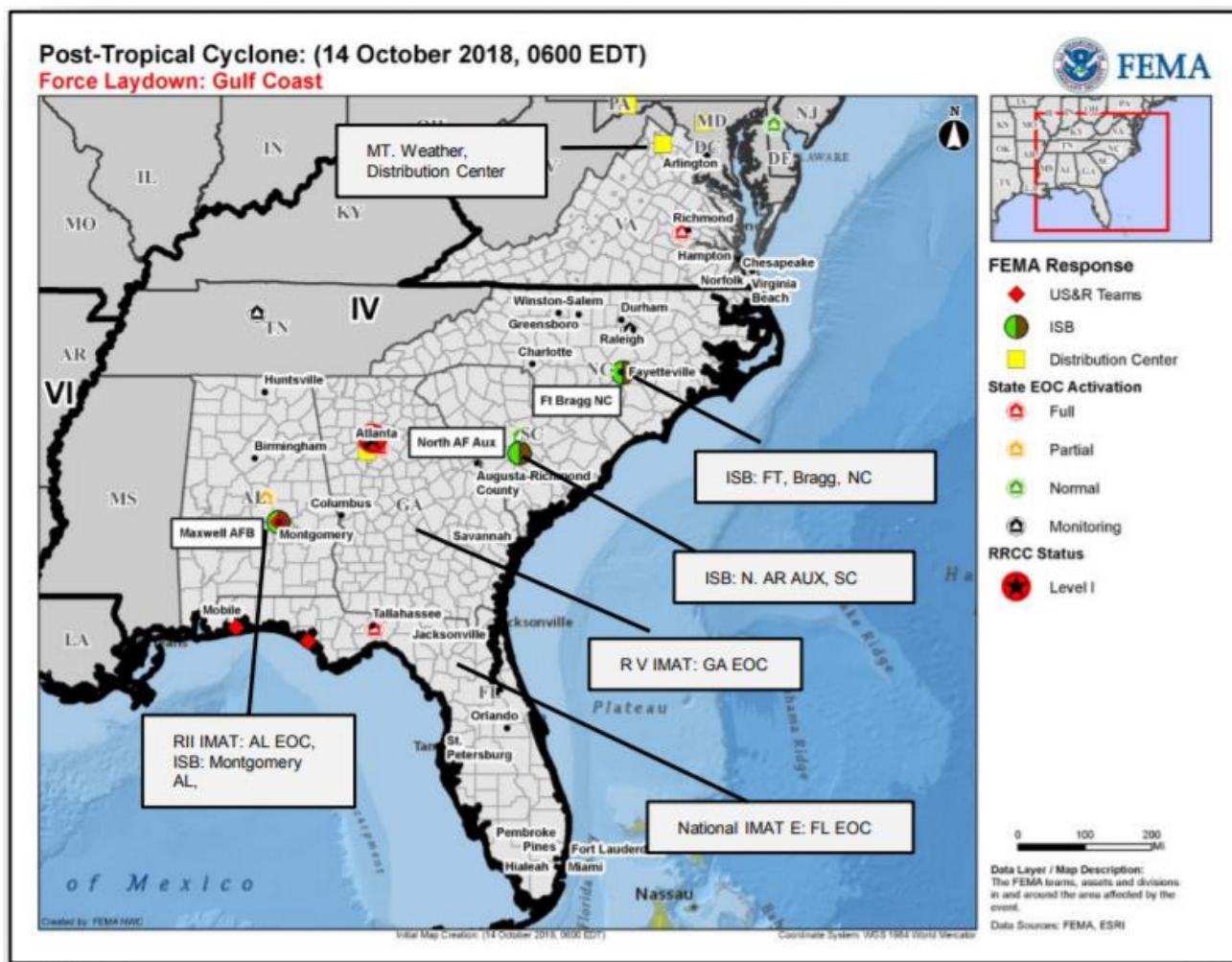
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**October 14, 2018**

**Regional Updates:**

- **FEMA R IV:**
  - RRCC at Level I (24/7), all ESFs, DCO/DCE and DHS NPPD
  - LNOs deployed to FL, GA, and AL
  - IMAT-2 deployed to FL EOC
  - Link for the map journal created and being used in Region 4 RRCC:
    - <http://arcg.is/18PPe0>
- **State Response:**
  - **Alabama:**
    - AL EOC at Full Activation
    - Governor declared a statewide state of emergency
    - Emergency Declaration FEMA-3407-EM approved on October 12
  - **Florida:**
    - Incident level journal for FL being built out at:
      - <http://arcg.is/em5f0>
    - Governor declared a state of emergency for 35 counties
    - Emergency Declaration FEMA-3405-EM-FL approved on October 9
    - Major Disaster Declaration FEMA-4399-DR-FL approved on October 11
  - **Georgia:**
    - Governor declared state of emergency for 108 counties
    - Emergency Declaration FEMA-3406-EM-GA approved on October 10
  - **North Carolina:**
    - NC EOC at Monitoring
  - **South Carolina:**
    - SC returned to Normal Operations
  - **Tennessee:**
    - TN EOC at Monitoring (EMAC support)
  - **Virginia:**
    - VA EOC at Monitoring; Governor declared a state of emergency
  - **Delaware:**
    - DE EOC returned to Normal Operations
  - If you need access to State SAR Field Data use this form:
    - <https://arcg.is/1zefHn>





## 4. FEMA JFO Updates

### Operations:

- No updates

Updated on October 9, 2018

## 5. FEMA HQ NRCC Updates

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### FEMA GIS Links:

- FEMA GIS Portal:
  - <https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>
- FEMA Hurricane Incident Journal:
  - <https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>
- *Disasters GeoPlatform* :
  - <https://disasters.geoplatform.gov/wa/home/>
  - *Notes: This data is available to the public, and categorized by lifeline for users to browse.*
- Joint Search and Rescue Activity Story Map Series:
  - <https://fema.maps.arcgis.com/apps/MapSeries/index.html?appid=7477ed4cea264a78b89cb6f8c7971911>

### Other GIS Links:

- *NASA Disasters GIS Portal:*
  - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *Voyager Imagery Indexing System:*
  - [http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=f\\_d\\_acquisition\\_date&fq=fs\\_usgs\\_dataset\\_fullname:201809\\_Hurricane\\_Florence&d\\_isp=D165438F7476&view=card&sortdir=desc](http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=f_d_acquisition_date&fq=fs_usgs_dataset_fullname:201809_Hurricane_Florence&d_isp=D165438F7476&view=card&sortdir=desc)
- *NAPSG Situational Awareness Viewer:*
  - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos:*
  - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>

### DAILY UPDATES

October 15, 2018

#### I. General:

- - NRCC at Level II with select ESFs
  - National IMAT East deployed to FL EOC
  - Region II IMAT deployed to AL EOC
  - Region V IMAT deployed to GA EOC
  - ISB Team deployed to Montgomery, AL
  - Staging areas: Montgomery, AL (Maxwell AFB); Fayetteville, NC (Ft Bragg); North AF AUX, SC

## II. Production and Modeling:

- - Visual damage assessments have begun in impacted areas using FEMA AGOL Web Mapping Application to support FEMA Recovery
    - Current needs:
      - Web service for NICB and Google imagery

## III. Remote Sensing:

- Coordination Call:
  - Daily at **2:30 PM EST**
  - Adobe Connect: <https://fema.connectsolutions.com/rscoordinationcall>
  - Conference Bridge: 800-320-4330, Passcode: 247327#

## IV. Crowdsourcing:

- The FEMA Crowdsourcing Unit is coordinating crowdsourcing efforts with various Digital Volunteer Networks (DVNs) and also collaborating with the private sector and other partners to access crowdsourced data from existing crowdsourcing platforms to provide situational awareness at the FEMA National Response Coordination Center (NRCC). These crowdsourcing resources are organized by FEMA's Lifelines and are intended to fill any gaps and provide redundancy to the official response efforts by leveraging nontraditional sources of information and digital volunteers. See this [Google Doc](#) for the most updated version of the table. See this [Google Slide Deck](#) for updates from DVNs (*Google Doc and Slides accessible in Microsoft Edge web browser*). Crowdsourcing Resources will be provided by lifelines in this Story Map for future calls as they have more significant activity.
  - **Daily Crowdsourcing Coordination Call at 1700 (5:00 pm EST) for 1 hour**
    - Zoom Webinar Link: <https://zoom.us/j/2228882929>
    - Call-In Number: +16699006833, 2228882929#
    - Slack Channel: <https://femacrowdsourcing.slack.com>
    - Email: [FEMA-Crowdsourcing@fema.dhs.gov](mailto:FEMA-Crowdsourcing@fema.dhs.gov)
- **Updates:**
  - **Social Listening**
    - The Social Listening sections are curated by External Affairs. Volume of conversation is similar to yesterday. There has been an increase in FEMA discussion which is becoming increasingly complex as survivors navigate the application and assistance process. There continues to be a high level of discussion about PODs. Individuals in Southern Georgia are concerned that their story is not being told and worry that it could affect the flow of resources to the area. A growing number of people are discussing medical needs, particularly insulin needs.
    - For any questions or comments regarding the social listening sections of this report, please email [FEMA-NRCC-EAUL@fema.dhs.gov](mailto:FEMA-NRCC-EAUL@fema.dhs.gov)
  - **Public Perception**
    - **FEMA Conversation:**
      - Survivors are wondering if their homes would qualify as **"unlivable" if there is no sewer/water** system in their area. Some who have minimal structural damage to their homes but are without access to water or sewer have applied for assistance because they feel their home is uninhabitable. However, one woman feels she was denied assistance because the application

asks if you have been without utilities or sewer for 5 days or more, and [when she applied it had been four days](#).

- Some evacuees (both FL and GA) are saying they have been told by FEMA they [need to return to their homes](#) to complete the application process. This has been frustrating for those who are looking for assistance more quickly.
- Survivors are telling each other to [register with FEMA](#) as soon as possible so they can get refunds for expenditures during the recovery process including, hotels, tarps, etc.
- There continues to be confusion over TSA and lodging reimbursement. Some survivors are saying that hotels in the area are accepting check-in from individuals who have [“pending approvals” from FEMA](#)
- There is growing discussion about the [Blue Roof Project](#). Discussion of [FEMA and blue roof](#) tend to go hand-in-hand.
- **Public Sentiment:**
  - As power restoration improves in many areas those who have yet to have power restored are growing impatient. Each [update on power](#) results in a cascade of comments from survivors sharing that they still don’t have power and wondering when crews will make it to their neighborhoods.
  - Many Georgia residents are asking that Albany State University push back its homecoming celebrations. There is concern that the week-long celebration will bring additional people to the area and cause [further strain on already limited resources](#).
  - In a Georgia press briefing this morning a local official stated that much of Atlanta doesn’t have any idea of what is going on in Southern Georgia. He stressed the need to [tell the story](#) of what is happening in their region to make sure resources continue to flow into the area.

## 6. LIFELINE 1: SAFETY & SECURITY

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### KEY CONCERNS

#### Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

#### Firefighting

- Coordination of Federal firefighting activities
- Support to wildland, rural, and urban firefighting operations

#### Search and Rescue

- Life-saving assistance
- Search and rescue operations

#### Public Safety and Security

- Facility and resource security
- Security planning and technical resource assistance
- Public safety and security support
- Support to access, traffic, and crowd control

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### AGENCIES

- Department of Defense (U.S. Army Corps of Engineers)
- Department of Agriculture (U.S. Forest Service)
- Department of Homeland Security (FEMA)
- Department of Justice

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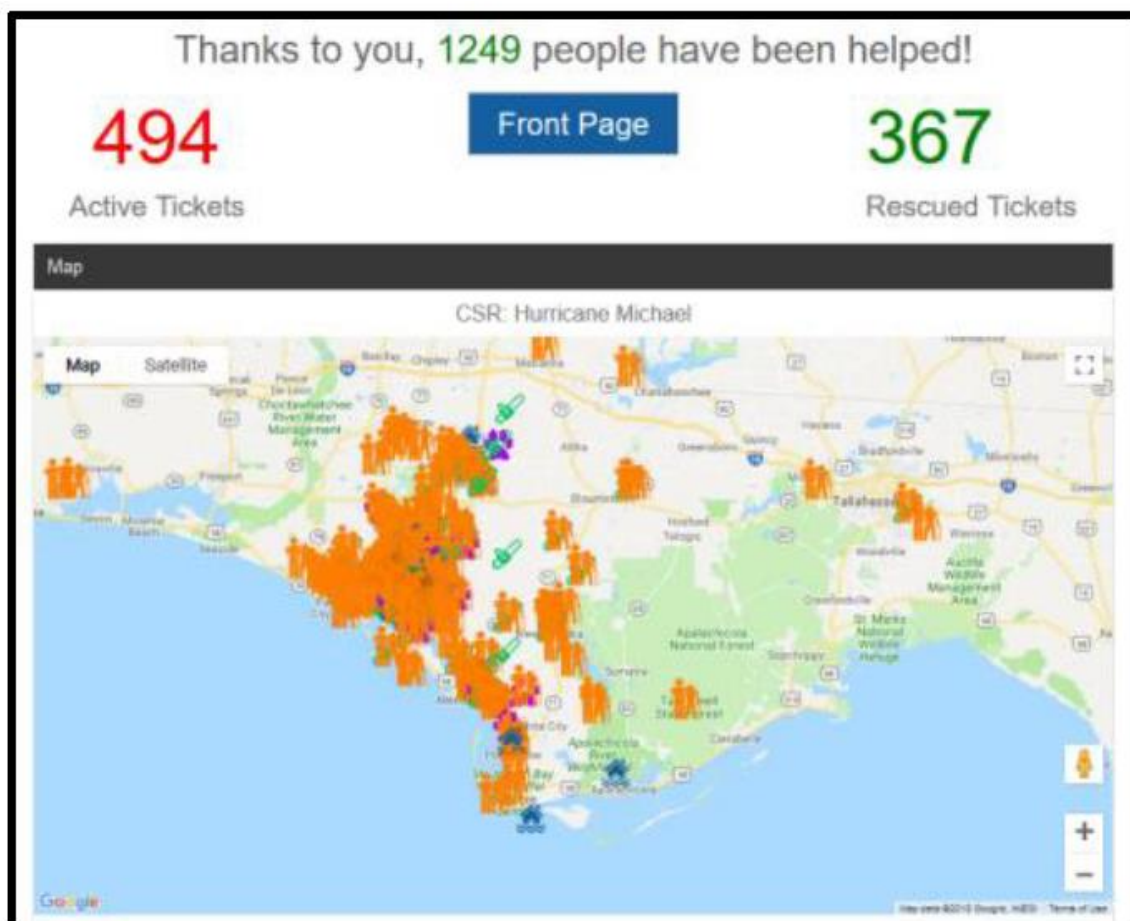
### DATA LINKS

- NASA Disasters GIS Portal:
  - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- NAPSG Situational Awareness Viewer:
  - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- NAPSG 2018 Hurricane Crowdsourced Photos:
  - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>
- Civil Air Patrol Imagery Uploader:
  - <https://communities.geoplatform.gov/disasters/civil-air-patrol-cap-browser/>

## DAILY UPDATES

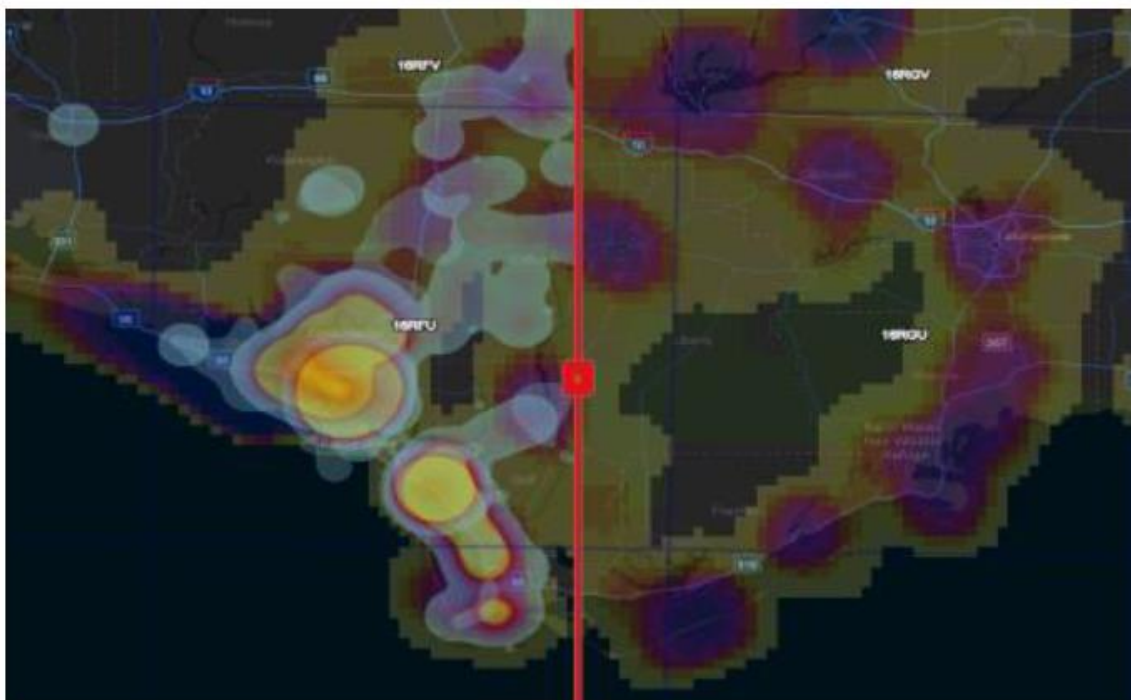
### October 14, 2018

- FEMA Crowdsourcing
  - [CrowdSource Rescue Platform](#) shows 495 active tickets (-5) and 367 rescued tickets (+11), which helped 1,249 people (+72). The map allows you to filter for tickets related to animal rescues, water rescues, wellness checks, and debris removal. Pet and water rescues are concentrated in Panama City.





- [Joint SAR Activity Story Map Series](#) shows SAR activity in Panama City, Upper Grand Lagoon, Long Point, Mexico Beach, Highland View, Oak Grove, Port St. Joe, Chason, Altha, Betts, Magnolia Bluffs, Eastpoint, and St George Island County Park (no significant change since the last report). The Hazard Exposure Swipe map (right tab on top) indicates where highest community exposure from surge, wind, and flooding overlaid with State & Local SAR activity, which you can swipe on and off.



- **Social Listening**
  - Florida
    - All access and checkpoints leading into Panama City have been lifted. However, county officials warn that there continue to be [limited resources and support](#) in the area, and there continue to be curfews, so individuals should take that into account when making the decision to return. Officials recommend those who are able remain evacuated and wait for conditions to improve.

## 7. LIFELINE 2: FOOD, WATER, SHELTERING

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### FOOD, WATER, SHELTERING

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#### KEY CONCERNS

##### Mass Care, Emergency Assistance, Temporary Housing and Human Services

- Mass care
- Emergency assistance
- Disaster housing
- Human services

##### Logistics Management and Resource Support

- Comprehensive, national incident logistics planning, management, and sustainment capability
- Resource support (facility space, office equipment and supplies, contracting services, etc.)

##### Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

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#### AGENCIES

- Department of Homeland Security (FEMA)
  - General Services Administration and Department of Homeland Security (FEMA)
  - Department of Defense (U.S. Army Corps of Engineers)
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#### DAILY UPDATES

October 14, 2018

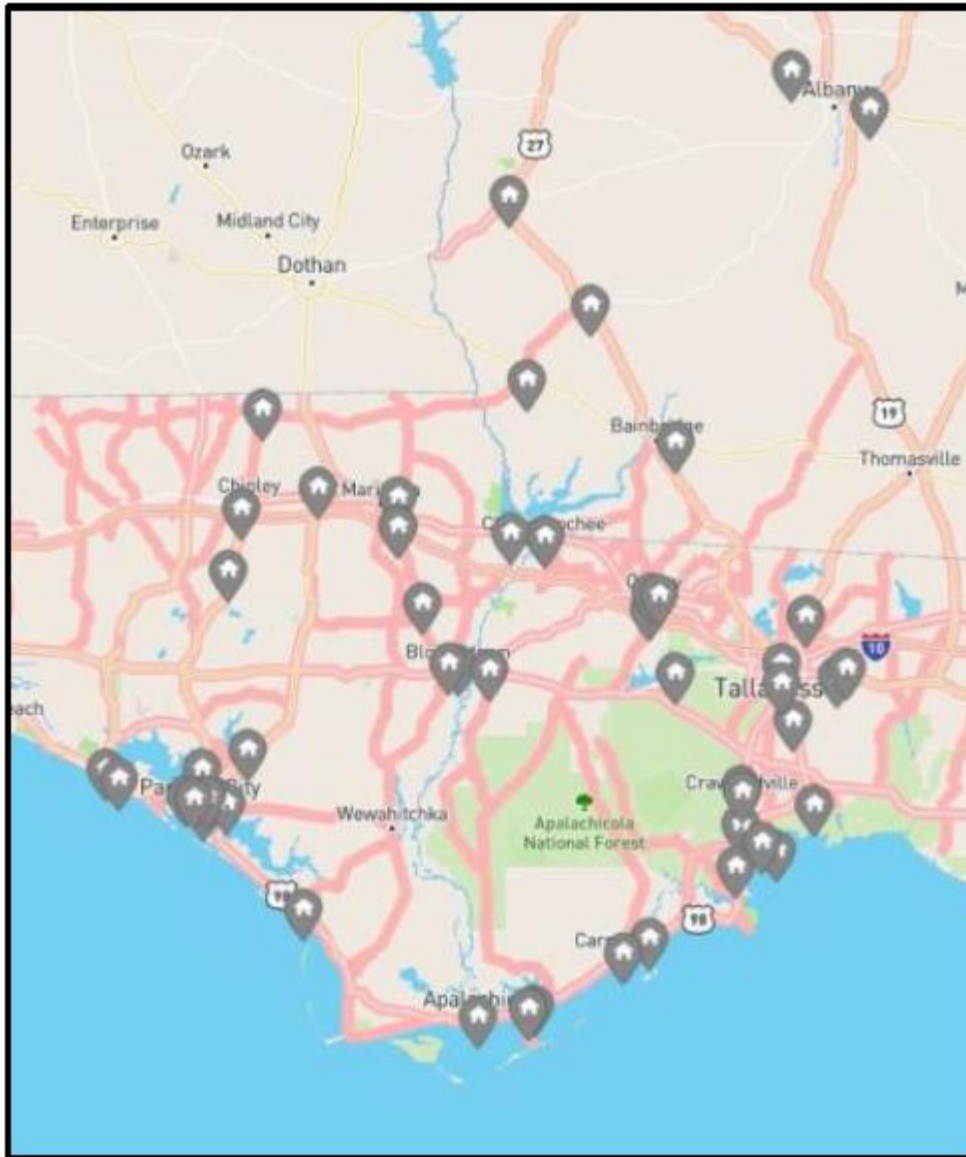
- **FEMA Crowdsourcing**
  - [CEDR Digital Corps Shelters Crowdsourced Map](https://arcg.is/0f0Cr8) (curated by ~20 volunteers) is a comprehensive map of 147 shelters in



FL (52), GA (72), AL (7), NC (15), SC (1).



- 48 Open shelters: FL (26), GA (4), AL (5), NC (12), SC (1)
  - 3 shelters in FL open to county residents only
  - 1 shelter in FL is full
- 95 Closed shelters: FL (22), GA (64), AL (2), NC (3), SC (0)
- (No changes in shelter status since the last report.)
- The [Code for America Points of Distribution \(POD\) Map](#) is a comprehensive map of PODs in Florida and Southwest Georgia. A POD is where the public goes to pick up food, water and other emergency supplies following a disaster.
  - 49 PODs in FL
  - 6 PODs in GA



- [Airbnb Open Homes](#) is activated for [Hurricane Michael](#) starting on October 8 to 29, 2018 allowing Airbnb hosts to donate their homes to displaced neighbors that need free emergency shelter and to relief workers deployed to help. There are still 306 Airbnb Open Homes in Florida, Georgia, and South Carolina currently available at \$0 per night.
- Social Listening
  - Florida
    - There continue to be requests for resources in [northern parts of Bay County](#). Residents are concerned that not enough supplies are being routed to that area.
    - Some residents have reported [Piggly Wiggly and Dollar General](#) are open in that area but are only able to take cash.

## 8. LIFELINE 3: HEALTH & MEDICAL

### KEY CONCERNS

#### Public Health and Medical Services

- Public health
- Medical
- Mental health services
- Mass fatality management

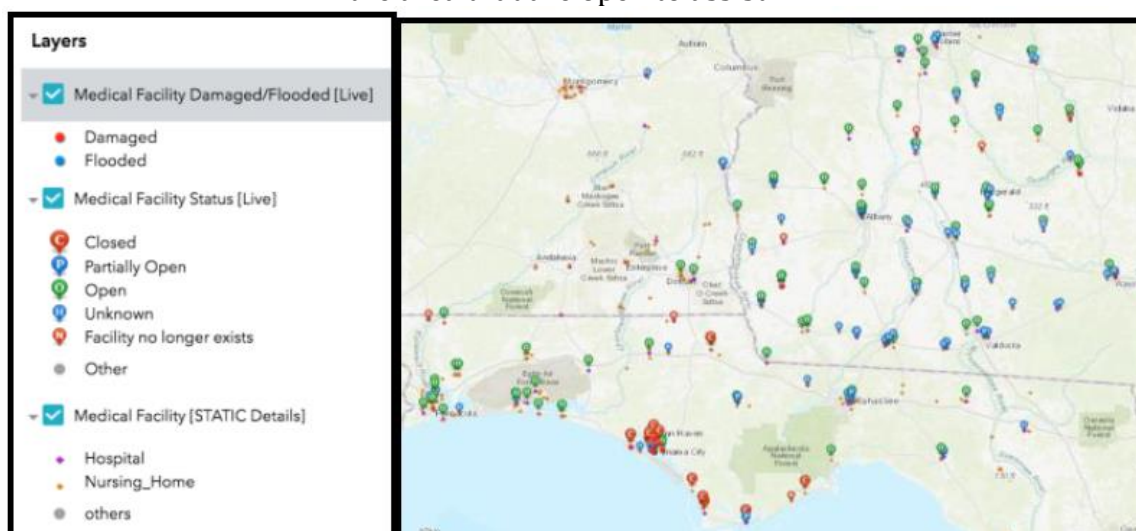
### AGENCIES

- Department of Health and Human Services

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [Standby Task Force \(SBTF\) Medical Facility Status Map](#) (curated by 33 volunteers) shows updates on 202 (no change) of 391 medical facilities mapped so far in FL, AL, and GA
    - 93 open; 21 partially open; 23 closed; 11 no longer exist; 54 unknown
    - 22 not damaged; 20 (+1) damaged; 1 (-1) flooded; 152 unknown structural damage
    - 44 (+1) using generators; 17 on the grid; 3 no power
  - Social Listening
    - Florida
      - A growing number of people are discussing [medical and prescription needs](#). In particular, there has been an increase in mentions of people running low on insulin ([example 1](#), [example 2](#)).
      - Some dialysis patients in Bay County have [resorted to calling EMS](#) for assistance. The County is asking that patients not do this, instead they have provided information on two dialysis centers in the area that are open to assist.



## 9. LIFELINE 4: ENERGY (POWER, FUEL)

### KEY CONCERNS

#### Energy

- Energy infrastructure assessment, repair, and restoration
- Energy industry utilities coordination
- Energy forecast

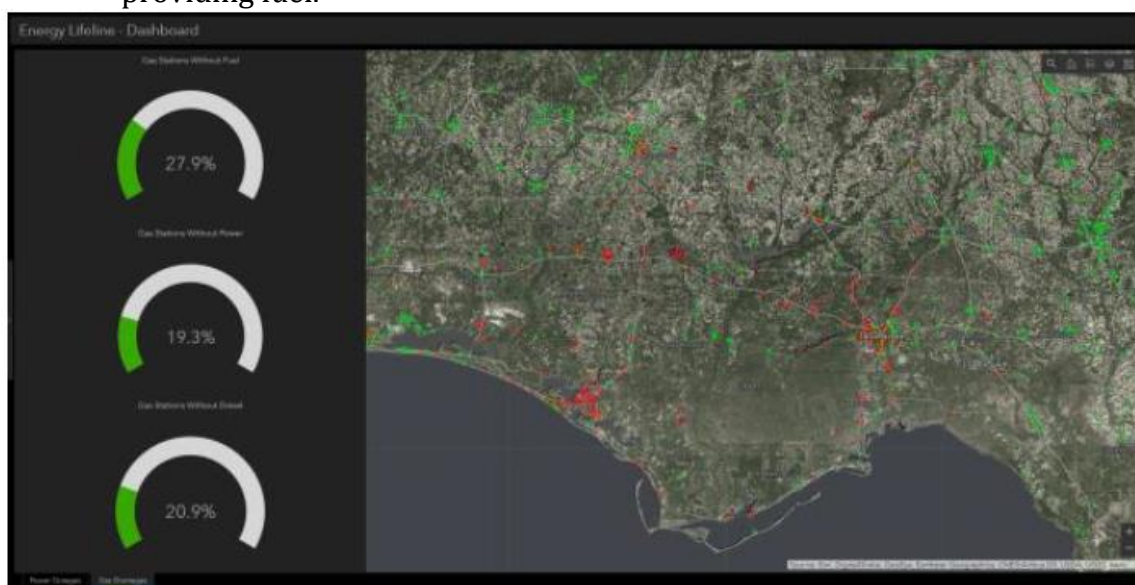
### AGENCIES

- Department of Energy

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [GasBuddy Fuel Availability & Station Outages Dashboard](#) shows gas stations in FL without fuel.
    - Panama City 60% (no change)
    - Tallahassee-Thomasville 37% (+1%)
    - Mobile-Pensacola 13% (no change)
  - The [FEMA Energy Lifeline Dashboard](#) shows live GasBuddy data indicating gas stations that have fuel & power, no fuel & power, no fuel, or no power. Slight increase in gas stations in Panama City with no power, fuel, or diesel. The Department of Energy analyzes the GasBuddy data to inform decisions on providing fuel.



- **Social Listening**
  - Florida
    - As of 0522 EST, [Gulf Power updates](#) that they have restored power to 55,000 customers as of yesterday. This morning, more than 5,000 employees are continuing to support the mission.

- As of 1006 EST, Duke Energy shared updated [time estimates](#) for power restoration in impacted counties and states 4,500 workers are supporting:
  - Bay and Gulf County: Due to the extensive damage, some parts of this zone area is inaccessible and may require extensive reconstruction to the electrical system. No time estimate can be provided yet.
  - Wakulla County: Sunday, October 14th by 11:59 p.m.
  - Franklin County (Carabelle, Lanark Village, & Panacea): Monday, October 1 by 11:59 p.m.
  - Franklin County (St. George Island, Eastpoint, Apalachicola, Dog Island, and Alligator Pointe): Wednesday, October 17th by 11:59 p.m.
  - Jefferson and Leon County: Saturday, October 13th by 11:59 p.m.
- Georgia
  - As of 2119 EST, an individual tweets that they are looking to [send 5500-7000 generators to the Atlanta Dispatch Center](#) for people impacted by Hurricane Michael.
- Carolinas
  - Individuals in the Carolinas are getting increasingly anxious about power restoration times and have asked how electric companies navigate repairing the outages. ([Example 1](#), [Example 2](#), [Example 3](#))

# 10. LIFELINE 5: COMMUNICATION

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## COMMUNICATION

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### KEY CONCERNS

#### Communications

- Coordination with telecommunications and information technology industries
  - Restoration and repair of telecommunications infrastructure
  - Protection, restoration, and sustainment of national cyber and information technology resources
  - Oversight of communications within the Federal incident management and response structures
- 

### AGENCIES

- Department of Homeland Security (National Communications System)
- 

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [Humanity Road](#) collaborates with Facebook to develop [Facebook Disaster Maps](#) to visualize the reduction of users by location and status of network coverage for 2G, 3G, and 4G services. [Facebook Data & Methodology](#): When people use the Facebook mobile application with Location Services turned on, Facebook collects data on which towers are providing the connection and where the device is located. This location data does not connect the device to a person's name or any other identifying information. For each cell tower in the disaster-affected region, Humanity Road estimates the size of the coverage area based on the locations of devices that have connected with it. Then they compare this estimate with an aggregation of three months of historical data to identify changes in the coverage area caused by the disaster.
  - Social Listening
    - Florida
      - As of 0215 EST, survivors report they continue to have issues with Verizon service in Panama City. Some are having issues locating the [mobile hotspots](#) that have been provided.



# 11. LIFELINE 6: Transportation

## KEY CONCERNS

### Transportation

- Aviation/airspace management and control
- Transportation safety
- Restoration and recovery of transportation infrastructure
- Movement restrictions
- Damage and impact assessment

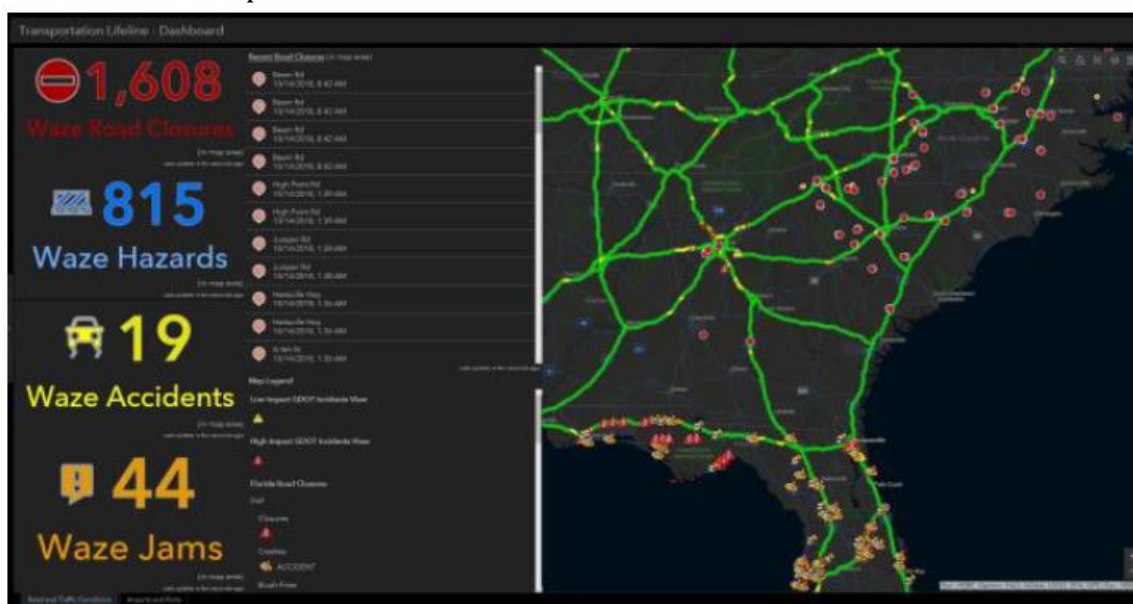
## AGENCIES

- Department of Transportation

## DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - Live [Waze](#) data of road closures, hazards, accidents, and jams are integrated into the [FEMA Transportation Lifeline Dashboard](#).
    - An increase of 449 road closures, 589 hazards, and 37 jams since the last report.



- [Google Maps Traffic](#) provides real-time traffic conditions based on passive collection of mobile phone location and speed. You can pull in the live traffic data with this [Google Traffic Layer](#).

## 12. LIFELINE 7: HAZARDOUS WASTE

### KEY CONCERNS

#### Oil and Hazardous Materials Response

- Oil and hazardous materials (chemical, biological, radiological, etc.) response
- Environmental short- and long-term cleanup

#### Agriculture and Natural Resources

- Nutrition assistance
- Animal and plant disease and pest response
- Food safety and security
- Natural and cultural resources and historic properties protection
- Safety and well-being of household pets

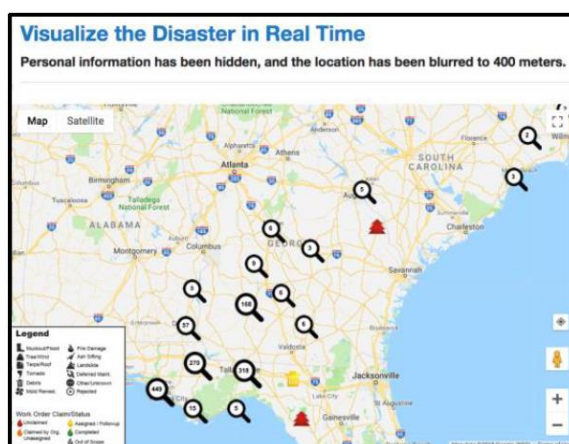
### AGENCIES

- Environmental Protection Agency
- Department of Agriculture

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [Crisis Cleanup](#) (click on Hurricane Michael in incident list) contains the status of 1,438 work orders (+99) related to cleaning up trees and other debris, tarps for roofs, muckouts, and other recovery activities.
  - Social Listening
    - Florida
      - Bay County reports that [garbage pick-up](#) will begin again in Panama City starting today.
    - Georgia
      - [USACE reports](#) that the first emergency generator in their Emergency Power Mission in Georgia was installed Saturday night and is supporting critical wastewater infrastructure in Albany with emergency temp power while the larger commercial grid continues to be restored.





## 13. ADDITIONAL INFORMATION

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### FEMA Geospatial Coordination Calls

**When?** Daily @ 2:00 PM (Eastern)

**Where?** Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

**>> Daily coordination call notes will be posted at the following location:**

<https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneFlorence/Documents/GeospatialCoordinationCallNotes/>

**>> Register for the FEMA Daily Operations Briefing here:**

[https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic\\_id=USDHSFEMA\\_153](https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_153)

**\* Please forward the details of these calls to other interested parties, including state and local representatives.**

**>> To be added to the Geospatial Coordination Calls During Disasters mailing list:**

[https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic\\_id=USDHSFEMA\\_1351](https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_1351)

**>> Questions?**

contact us at: [FEMA-MDWG@fema.dhs.gov](mailto:FEMA-MDWG@fema.dhs.gov)